



FEDERAL - STATE COOPERATIVE
SNOW SURVEYS AND IRRIGATION WATER FORECASTS
for

**Montana and Northern Wyoming
Upper Missouri, Upper Columbia and
Yellowstone Rivers**

By
Division of Irrigation, Soil Conservation Service
United States Department of Agriculture
and
Montana Agricultural Experiment Station

In cooperation with the U. S. Forest Service, U. S. Geological Survey, National Park Service, U. S. Bureau of Reclamation, State Engineers of Montana and Wyoming and other Federal, State and local organizations.

As of

MAY 1, 1952

450 63 1.50

FEDERAL--STATE COOPERATIVE SNOW SURVEYS

AND

IRRIGATION WATER FORECASTS

FOR

MONTANA AND NORTHERN WYOMING

Upper Missouri and Upper Columbia River
Basins

Report Prepared
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Division of Irrigation
Soil Conservation Service

and

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IRRIGATION WATER SUPPLY OUTLOOK FOR 1952
SEASON
AS OF MAY 1, 1952

* * * * *

* Snow survey measurements made on or about May 1 *

* indicated that the HIGH elevation snow is holding in good shape. *

* The above average temperatures and below average precipitation *

* in April has depleted the low elevation snow fields. Very *

* little snow remains below 5500 feet elevation. *

* Stream flow has been high during April and will remain *

* high as the snowmelt season continues during May and June. *

* Seasonal stream flow forecasts have been adjusted downward by *

* virtue of the lack of precipitation during April and the pro- *

* spects of a light precipitation figure for May. The fact *

* that the soil under the pack was not frozen at any time during *

* the winter months has had considerable effect on the probable *

* seasonal runoff. *

* The Wind River Basin in Wyoming has felt the early spring *

* melt season where snow depths and water content has dropped *

* abnormally. The Popo Agie River Basin was not effected too *

* severely by virtue of the heavy snow pack in that area. *

* *

* * * * *

JEFFERSON RIVER: Although only a few snow survey courses were measured on the Jefferson, the high elevation snow is still intact. It is anticipated, due to the lack of April precipitations of the seasonal runoff, the stream flow will be 10 to 15% less than anticipated on the first of April.

MADISON RIVER: Madison River snow survey courses were measured on May 1 and found to be approximately the same percent of average as on April 1. The forecast for the Madison River at West Yellowstone was dropped from 211,000 to 168,000 acre feet for the May-September season.

GALLATIN RIVER: The Gallatin River snow survey courses on May 1 indicate considerable drop in water content; as a result the May-September forecast was dropped from 553,000 to 502,000 acre feet.

MISSOURI RIVER MAIN STEM: Due to the lack of April precipitation and probable deficiency in May precipitation, it is anticipated that the Main Missouri will flow approximately 116% average during the May-September period.

UPPER YELLOWSTONE RIVER: Snow survey measurements made on May first in Yellowstone Park have dropped slightly in their percent of average as of May first, due to the early runoff season and lack of precipitation during April. The forecast for Yellowstone River at Corwin Springs was dropped from 2,237,000 to 1,902,000 for the May-September period.

LOWER YELLOWSTONE RIVER IN WYOMING: Snow survey measurements over the Wind and Popo Agie River have not changed from April to May in respect to their percentage of averages. The Wind River is still a little short, while the Popo Agie is still a little high in respect to normal for May 1.

COLUMBIA RIVER IN MONTANA: Snow survey measurements on or about April 1 in the headwaters of the Columbia River in Montana indicate that there is still a good water supply as of May 1. Forecasts of stream flow have been dropped slightly all along the main stem to the Idaho boundary. The abnormally warm weather which occurred earlier in April, together with the lack of precipitation and unfrozen ground beneath the snow pack has reduced the seasonal forecast by approximately 20 percent. The April-September forecast for the South Fork of the Flathead near Columbia Falls was reduced from 2,751,000 to 2,135,000 acre feet. The April-September seasonal flow for the Flathead River at Columbia Falls was reduced from 7,104,000 to 5,728,000 acre feet. The April-September seasonal flow of the Clark Fork at Herron was reduced from 14,232,000 to 12,004,000 acre feet.

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MAY 1, 1952
MISSOURI RIVER BASIN IN MONTANA
PRELIMINARY ESTIMATES OF SEASONAL RUNOFF
(1000's acre ft.)

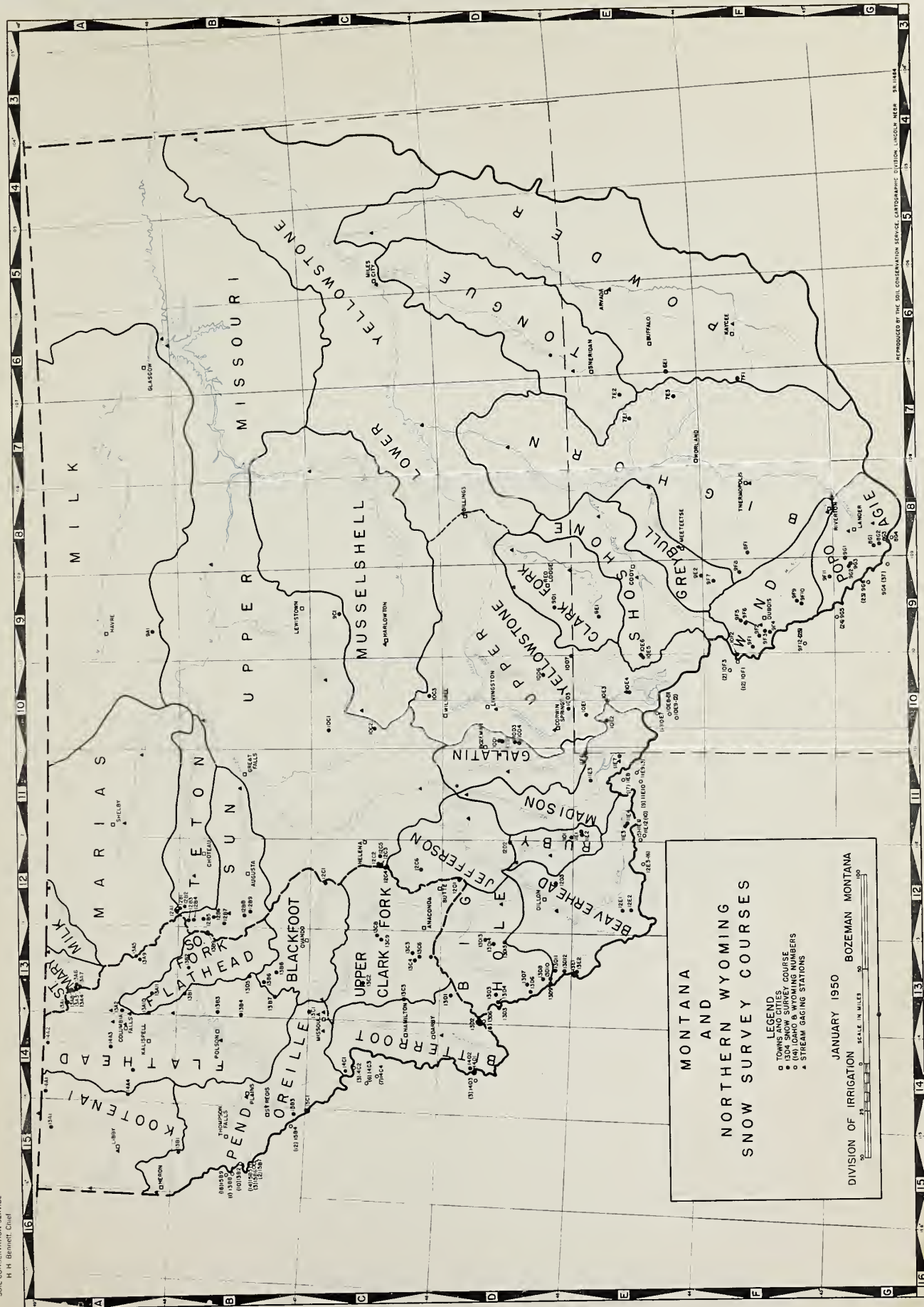
NAME OF STREAM AND STATION	Season May-June	Season July-Aug-Sept.	Season May-Sept.	% 10 yr. Average 1911-50
Gallatin River at Gallatin Gateway	337.4	164.4	501.8	118
Gallatin River at Logan	356.0	139.0	495.0	117
Madison River at West Yellowstone	97.0	71.0	168.0	98
North Fork Musselshell at Delphine	3.0	1.1	4.1	180
Judith River near Utica	45.7	13.2	58.9	131
Yellowstone River at Corwin Springs	1,237.0	665.0	1,902.0	103
Big Hole at Melrose	433.0	152.7	585.7	88
<u>LOWER YELLOWSTONE RIVER (WYOMING)</u>				
Little Popo Agie at Hudson	---	68.42		120
Popo Agie near Riverton	176.6			
North Fork Popo Agie near Lander	84.4	124.0		162
Wind River at Riverton	267.5	528.7		99
Shoshone River below Buffalo Bill	489.9	916.8		141
Shoshone River near Byron	320.0	620.0		130
Middle Fork Powder near Keycee	46.8	56.9		71
Tongue River near Dayton	105.5	133.7		117
Tongue River at Acme	295.0	330.0		123
Goose Creek near Sheridan	67.1	79.5		110

MAY 1, 1952

REVISED FORECASTS

COLUMBIA RIVER BASIN IN MONTANA
PRELIMINARY ESTIMATES OF SEASONAL RUNOFF
(1000's acre feet)

NAME OF STREAM AND STATION	Season April-July	% 10 yr. Average 1941-50	Season April-Sept.	%10 yr. Average 1941-50
North Fork Flathead near Belton	1,526	102	1,674	99
Middle Fork Flathead near Belton	1,577	105	1,693	105
South Fork Flathead near Columbia Falls	2,018	102	2,135	102
Flathead River at Columbia Falls	5,230	102	5,728	105
Flathead River at Polson	5,283	99	5,881	104
Clark Fork above Bonner	834	117	912	119
Black Foot at Bonner	765	129	893	124
Clark Fork above Missoula	1,599	123	1,805	118
Bitterroot River at Darby	676	143	714	141
Clarks Fork below Missoula	3,403	124	3,679	121
Clarks Fork at St. Regis	4,570	150	4,910	121
Clarks Fork at Plains	10,159	115	11,132	112
Clark Fork at Herron	10,915	119	12,004	117



**MONTANA
AND
NORTHERN WYOMING
SNOW SURVEY COURSES**

LEGEND

- TOWNS AND CITIES
- 304 SNOW SURVEY COURSE
- 1410 SNOW SURVEY COURSE
- ▲ STREAM GAGING STATIONS

JANUARY 1950

DIVISION OF IRRIGATION

SCALE IN MILES

BOZEMAN MONTANA

INDEX TO MONTANA & NORTHERN WYOMING SNOW COURSES

Drainage Basin And Course Name	Montana Number	Elev.	Location			Range	Record Began	Measuring Dates ^a	Measured By: b
			Sec.	Lat.	Long.				
MISSOURI RIVER DRAINAGE									
JEFFERSON RIVER									
(ROCK-BEAV-HEAD)									
Lakeview Ridge	1153	7400	27	44S	2W	1948	3,4,5	9	
Lakeview Canyon	1154	6930	26	44S	2W	1948	3,4,5	9	
Lincoln	1232	6950	5	15S	9W	1948	3,4	1	
White Pine Ridge	1231	8850	18	44S	9W	1948	3,4	1	
(HORSE PRAIRIE)									
Bloody Dick	13016	7600	12	8S	16W	1948	3,4	1	
Gold Stone	1309	8100	11	8S	16W	1948	3,4	1	
Lemhi Pass	1321	7480	9	10S	15W	1948	3,4	1	
Terrell Creek	13012	6650	14	9S	15W	1948	3,4	1	
Trail Creek	1352	7090	15	10S	15W	1948	3,4	1	
Selway Junction	13011	6800	27	8S	15W	1948	3,4	1	
(BIG HOLE)									
Big Hole Pass	1303	7440	28	3S	18W	1948	3,4	1	
Big Hole Pass (Below)	1304	6900	24	3S	18W	1948	3,4	1	
East Boundary	1305	6700	22	3S	17W	1948	3,4	1	
Gibbons Pass	1302	7100	4	2S	19W	1934	2,3,4,5	1,2	
Jahnske Creek	1308	7340	25	7S	16W	1948	3,4	1	
Miner Forks	1306	7300	24	6S	17W	1948	3,4	1	
Miner Lake	1307	6720	10	6S	16W	1945	3,4,5	1	
(MUSE RIVER)									
Andersen Mdw.	13014	7000	18	3S	12W	1948	3,4	1	
Elk Horn	13015	8450	15	4S	12W	1934	3,4,5	2	
Wise River	13013	6300	15	2S	12W	1948	3,4	1	
(RUBY RIVER)									
Cottonwood	1152	5900	24	10S	3W	1948	3,4	1	
Cottonwood (Upper)	1151	6100	30	10S	3W	1948	3,4	1	
Flaahlight	1203	6950	22	8S	7W	1945	3,4,5	1	
Tobacco Root	1202	6900	13	4S	3W	1948	3,4	1	
Vigilante	1101	6125	28	9S	3W	1948	3,4	1	
MADISON RIVER									
Nabgan	1155	6550	22	11S	3E	1934	1,2,3,4,5	2	
West Yellowstone	1157	6700	34	13S	5E	1934	1,2,3,4,5	2	
Norris Basin	1082	7500	44 ^W -44 ^E		110 ^W -42 ^E	1935	3,4	5,6	
GALLATIN RIVER									
Devil's Slide	1004	8100	14	5S	6E	1935	3,4,5	2,6	
Nood Moosawi	1003	6600	22	4S	6E	1934	3,4,5	2,6	
Mythic Lake	1002	6600	30	3S	7E	1935	2,3,4	6,7	
New World	1001	6700	24	3S	6E	1939	2,3,4,5	6,7	
21-Mile	1136	7150	1	11S	5E	1934	1,2,3,4,5	2	
MISSOURI RIVER MAIN STEM									
Chesman Reservoir	1205	6200	2	8N	5W	1936	1,2,3,4,5	2	
Cypress Lake	901	6100	24	12N	17E	1941	3,4	1	
Grasshepper	1002	7000	19	9N	8E	1938	3,4	1	
Kings Mill	1001	7950	35	13N	7E	1937	3,4,5	2	
Picnic Grounds	1206	6500	22	5N	6W	1940	2,3,4	3	
Pipestone Pass	1201	7200	11	1N	7W	1938	2,3,4,5	1	
Stemple Pass	1201	6900	16	13N	7W	1934	3,4,5	2	
Ten Mile Creek, Lower	1203	6250	13	8N	6W	1935	1,2,3,4,5	2	
Ten Mile Creek, Middle	1203	6800	13	8N	6W	1934	1,2,3,4,5	2	
Ten Mile Creek, Upper	1204	8000	19	8N	5W	1935	1,2,3,4,5	2	
TETON RIVER									
Freight Creek	1241	6000	13	26N	10W	1948	3,4	1	
Waldron Creek	1282	5600	16	25N	9W	1948	3,4	1	
West Fork	1281	6000	6	25N	9W	1948	3,4	1	
SUN RIVER									
Bench Mark	1288	5500	9	20N	10W	1948	3,4	1	
Cabin Creek	1286	5400	33	23N	10W	1949	3,4	1	
5-Ball	1289	5600	36	20N	10W	1948	3,4	1	
Gate Park	1285	5300	31	24N	10W	1949	3,4	1	
Goat Mountain	1287	7000	20	22N	10W	1934	3,4	2	
My Lake	1389	7300	21	23N	12W	1950	3,4	1	
Wrong Creek Ridge	1283	6800	17	25N	10W	1949	3,4	1	
Wright Creek	1284	5700	32	25N	10W	1949	3,4	1	
MARIAS RIVER									
Marine Pass	1345	5250	34	30N	14W	1936	1,2,3,4,5	2	
Snow Lab. #16	1349	5200	15	29N	14W	1947	1,2,3,4,5	2	
MILK RIVER									
Rocky Boy	9A1	5200	15	28N	16E	1941	3,4	7	
MUSSELHILL RIVER									
Grasshepper	1003	7000	19	9N	8E	1938	3,4	1	
UPPER YELLOWSTONE									
Camp Semia	901	7890	2	8S	18E	1037	4	1	
Canyon	1003	7750	44 ^W -44 ^E		110 ^W -30 ^E	1938	1,2,3,4,5	12	
Cooke City	1007	7400	25	9S	14E	1937	1,2,3,4,5	5	
Crocker Mt.	1005	8400	29	9S	9E	1935	3,4	1	
Independence	1006	8000	22	7S	12E	1941	3,4	1	
Lake Camp	1054	7850	44 ^W -34 ^E		110 ^W -24 ^E	1937	1,2,3,4,5	12	
Lupine Creek	1051	7300	44 ^W -54 ^E		110 ^W -37 ^E	1938	1,2,3,4,5	5	
SHIELDS RIVER									
Porcupine	1003	6500	10	4N	10E	1938	3,4	1	
LOWER YELLOWSTONE									
(Wind River) Wyoming									
Brooks Lake #3	10P2	9200	23	44N	110W	1939	2,3,4,5	12	
Burroughs Creek	9P6	8800	15	43N	107W	1948	2,3,4,5	12	
Dinwoodie	9P10	10000	9	38N	105W	1948	2,3,4,5	12	
Dry Creek	9P9	9500	34	44N	105W	1948	2,3,4,5	12	
Duhoir	9P2	8750	27	42N	108W	1940	2,3,4,5	12	
Geyer Creek	9P3	8500	12	41N	108W	1948	2,3,4,5	12	
Nebbe Park	902	10000	22	2S	3W	1948	2,3,4,5	12	
Little Warm	9P4	9500	24	41N	108W	1948	2,3,4,5	12	
Moquette Park R.S.	903	9500	23	2S	3W	1940	2,3,4,5	12	
Sheridan R.S.	9P1	9500	3	42N	109W	1939	2,3,4,5	12	
St. Lawrence R.S.	9P11	9000	26	1N	4W	1940	2,3,4,5	12	
T-Cross Ranch	9P5	8000	1	43N	107W	1940	2,3,4,5	12	
Trot Creek	901	8400	5	2S	2W	1948	2,3,4,5	12	
Togotone Pass	10P1	9600	29	44N	110W	1936	2,3,4,5	10	
(Popo Agie River) Wyoming									
Elue Ridge	802	9500	23	31N	101W	1939	2,3,4,5	12	
Granier Meadows	804	9000	19	30N	100W	1936	2,3,4,5	12	
Larsen Creek	904	9000	12	30N	103W	1948	3,4,5	12	
Sawmill Glade	801	8500	3	31N	101W	1939	2,3,4,5	12	
South Pass	803	9000	13	30N	101W	1939	2,3,4,5	12	
MISSOURI RIVER DRAINAGE CONT.									
BIG HORN RIVER Wyoming									
Beavers Mill	9F8	8900	6	43N	102W	1948	2,3,4,5	12	
Owl Creek	8P1	8700	36	43N	101W	1948	2,3,4,5	12	
Tensleep R.S.	7P3	8300	30	49N	86W	1935	4,5	1	
Timber Creek	9P2	8800	25	47N	103W	1948	4,5	1	
Ranger Creek	7P2	8800	32	53N	88W	1935	4,5	1	
Wood River	9P7	8000	28	46N	103W	1939	2,3,4,5	12	
(SHOSHONE RIVER) Wyoming									
East Entrance	10P6	7000	17	52N	109W	1948	1,2,3,4,5	5	
Sylvan Pass	10P5	7100	12	52N	110W	1936	1,2,3,4,5	5	
TONGUE RIVER Wyoming									
Big Goose	7P2	7700	4	53N	86W	1935	2,3,4,5	1	
Burgess Ranger Sta.	7P4	7900	36	56N	87W	1950	2,3,4,5	12	
Dome Lake	7P5	8800	11	53N	87W	1950	2,3,4,5	12	
Lodgepole	9P1	8200	32	56N	106W	1940	4,5	1	
POWDER RIVER									
North Powder	7P8	8500	5	47N	85W	1951	2,3,4,5	12	
Muddy Pass	7P7	8700	11	48N	85W	1950	2,3,4,5	12	
Soldier Park	7P6	8700	36	51N	85W	1950	2,3,4,5	12	
Sour Dough	6P1	8500	17	49N	84W	1936	2,3,4,5	12	
Red Fork	7P1	7000	18	43N	85W	1936	2,3,4,5	12	
COLUMBIA RIVER BASIN									
FOOTWALL RIVER									
Barce Mountain	15E1	6000	1	25N	31W	1937	4,5	1	
Blue Bird Basin	14A1	6800	24	37N	26W	1937	4,5	1	
Red Mountain	15A1	6000	4	36N	29W	1937	3,4,5	1	
PLATHEAD RIVER									
Basin Creek	13B14	5000	11	19N	12W	1951	2,3,4,5	1	
Big Creek	13B3	6750	647	22N	18W	1941	3,4,5	4	
Brush Creek	14A4	5000	13	30N	26W	1937	3,4,5	1	
Celtic Queen	13A1	4700	7	35N	17W	1939	3,4,5	5	
Desert Mountain	13A2	5600	24	31N	19W	1937	1,2,3,4,5	1	
Wallbearing Divide	14A3	5770	35	32N	22W	1942	3,4,5	1	
Hulbrook	13B13	4530	18	21N	13W	1951	2,3,4,5	1	
Kiahnehun	14A2	4300	7	37N	21W	1946	4,5	5	
Limestone Pass	13B8	7000	28	18N	12W	1948	3,4,5	1	
Logan Creek	14A5	4300	34	30N	24W	1937	3,4,5	1	
Marine Pass	13A5	5250	34	30N	14W	1934	1,2,3,4,5	2	
Snow Lab. #16	13A9	5200	15	29N	14W	1946	1,2,3,4,5	2	
Spotted Bear Mt.	13B2	7000	23	25N	15W	1948	3,4,5	1	
Strawberry Lake	13B10	6500	11	28N	19W	1948	3,4,5	1	
Trinkus Lake	13B1	6500	9	25N	17W	1948	3,4,5	1	
Trout Lake #2	13B2	3600	21	28N	17W	1948	3,4,5	1	
Upper Holland Lake	13B5	7000	28	20N	16W	1948	3,4,5	1	
Twin Creeks	13B11	3580	14	26N	16W	1951	2,3,4,5	1	
Quintonken	13B13	3800	11	26N	17W	1951	2,3,4,5	1	
UPPER CLARK FORK									
El Dorado Mine	13C9	7800	23	8N	12W	1946	4	11	
Gold Creek Lake	13C8	7200	14	8N	12W	1946	4	11	
Intergaard	13C4	6650	6	5N	13W	1939	2,3,4	3	
North Fork Jocke	13B7	6330	3	17N	17W	1941	3,4,5	4	
Picnic Grounds	1206	6500	22	5N	6W	1940	2,3,4	3	
Pipestone Pass	1201	7200	11	1N	7W	1938	2,3,4,5	1	
Raisey Lake	13B6	4300	11	18N	16W	1947	3,4,5	1	
Slide Rock Mountain	13C2	7100	26	10W	16W	1937	4	1	
Southern Cross	13C5	6500	9	5N	13W	1939	2,3,4	3	
Stemple Pass	13C1	6900	16	13N	7W	1934	3,4,5	2	
Stern Lake No. 2	1207	7780	19	4N	13W	1939	4	1	
Stuart Mill	13C6	6500	19	5N	13W	1939	2,3,4	3	
Stuart Mountain #1	13C1	7400	6	14N	18W	1936	4	3	
Coyote Mill	13B10	4200	12	18N	16W	1951	3,4,5	1	
FEND OREILLE RIVER									
Barce Mountain	13B1	6000	1	25N	31W	1937	4,5	1	

SUPPLEMENTAL INDEX LIST OF SNOW SURVEY COURSES
IN ADJACENT BASINS, USED IN THIS REPORT AND
SHOWN ON THE INDEX MAP

DRAINAGE AND SNOW COURSE	Adj. State No.	Montana Number	Elev. Feet	Section Lat.	Twp	Range Long.	Record Began	Measure- ment Dates	Meas- ured By
JEFFERSON	Idaho								
Kilgore	10	11E12	6200	6	12N	39E	1937	1,2,3,4,5	pd.obs.
Blue Ridge Mine	5	11E11	6700	27	13N	38E	1938	4	pd.obs.
Camp Creek	6	12E3	6800	21	13N	36E	1936	1,2,3,4	1
Moose Creek	8	13D16	6200	22-27	27N	21E	1937	3,4,5	1
Big Springs	3	11E9	6500	34	19N	44E	1936	1,2,3,4,5	10
Island Park	9	11E10	3600	28	13N	43E	1936	1,2,3,4,5	10
Valley View	17	11E8	6500	7	15N	44E	1936	1,2,3,4	10
UPPER YELLOWSTONE	Wyo.								
Lewis Lake Div.	9	10E9	7900	44-13	110-40	1919	1,2,3,4		10
Aster Creek	2	10E8	7700	44-17	110-37	1919	1,2,3,4		10
Tom Thumb Summit		10E7	7900	44-22	110-35	1949	3,4		10
LOWER YELLOWSTONE	Wyo.								
(Wind River)									
Togwotee Pass	12	10F1	9600	29	44N	110W	1936	2,3,4,5	10
Kendall	25	9F12	7900	23	38N	110W	1936	3,4,5	1
Loomis Park	26	10F4	8500	14	37N	111W	1942	3,4,5	1
Yellow Jacket	14	10F5	6775	33	42N	112W	1936	3,4,5	1
Black Rock	2	10F3	8600	4	44N	111W	1936	2, 4	10
Dutch Joe	23	9G6	8700	32	31N	104W	1936	4,5	1
Mulligan Park	24	9G5	8900	17	35N	108W	1936	3,4,5	1
KOOTENAI	Idaho								
Smith Creek	13	16A1	4800	29	64N	3W	1937	4,5	1
	Canada								
Fernie	10		3500	49-31	115-01	1939			
Fernie Ridge	68		5600	49-31	115-00	1952			
New Fernie	10A		4100						
Gray Creek	34		5100	39-37	116-41	1948			
Kimberly	20		3800	49-41	115-59	1945			
Marble Canyon	32		5000	51-12	116-09	1947			
Nelson Creek	19		3050	44-25	117-14	1938			
Sinclair Pass	8A		4500	50-40	115-58	1947			
Sullivan Mine	20A		5100	49-43	116-01	1945			
Upper Elk River	41		4400	50-01	114-56	1947			
UPPER CLARK FORK	Idaho								
Coyote Hill	13B11		4200	12	18N	16W	1952	3,4,5	1
49 Meadows	1	15B10	5000	6	43N	5E	1937	1,2,3,4,5	1
Lookout	10	15B2	5250	4	47N	6E	1921	1,2,3,4,5	1
PEND OREILLE	Idaho								
Mosquito Ridge	9	16A4	5110	5	54N	2E	1937	4,5	1
Freezout #2		15B10	6800	21	15N	27W	1951	3,4	1
BITTERROOT	Idaho								
Moose Creek	8	13D16	6200	22-27	27N	21N	1937	3,4,5	1
Kit Carson	3	14D3	4700	4	27N	16E	1937	4	1
Savage Pass	7	14C4	6000	18	36N	15E	1937	4	1
Powell Pasture	6	15C3	3700	27	27N	14E	1937	4	1
Packers Mdw.	5	14C2	5700	15	38N	15E	1937	2,3,4,5	1

STORAGE IN RESERVOIRS OF MONTANA MAY 1, 1952

MISSOURI RIVER BASIN

Reservoir Volumes in 1,000's a.f.

RESERVOIR	Location on or diversion from	Usable Cap- acity	Contents This Yr. May 1 1952	Contents Last Yr. May 1 1951	10-year Average May 1 1941 to 1950
Lima Reservoir	Beaverhead	84.00	84.0	72.0	62.6
Ruby Reservoir	Ruby River	38.85	--	--	27.9
Willow Creek Reser.	Willow Creek	17.76	--	--	--
Hobgen Lake	Madison River	345.00	205.2	261.3	230.4
Emmis Lake	Madison River	41.00	38.4	29.9	33.6
Middle Creek Reser.	Hyalite Creek		--	--	--
Lake Sewall	Missouri River	37.80	26.4	20.5	26.3
Hauser Lake (inc. Lake Helena)	Missouri River	62.50	34.6	52.9	44.3
Lake Helena	Missouri River	10.45	2.2	7.2	3.8
Holter Lake	Missouri River	81.92	57.8	56.5	54.1
Gibson Reservoir	N.Fk. Sun River	105.00	92.6	81.7	69.9
Willow Creek Res.	N.Fk. Sun River	32.30	26.8	27.1	13.4
Pishkun Reservoir	N.Fk. Sun River	32.00	23.5	19.0	20.3
Bynum Reservoir	Teton River				
Lower Two Medicine Lake	Two Medicine River	14.00	0.0	0.0	3.3
Four Horns Lake	Badger Creek	20.00	7.7	8.6	8.5
Swift Reservoir	Birch Creek	30.00	30.2	30.2	26.2
Lake Francis	Dupuyer & Birch Cr.	112.00	98.8	102.2	87.2
Ackley Lake	Judith River	5.82		4.8	4.5
Durand Reservoir	N.Fk. Musselshell	7.01			
Martinsdale Reservoir	S.Fk. Musselshell	23.10			
Deadman Basin Reservoir	Musselshell River	52.50			
Fort Peck Reservoir	Missouri River	19,000.00	13,630.0	13,400.0	10,202.2
Fresno Reservoir	Milk River	127.20	133.1	132.5	76.5
Nelson Reservoir	Milk River	66.80		18.5	31.2
Mystic Lake	W. Rosebud Creek	20.80	2.9	1.3	3.4
Cooney Reservoir	Red Lodge Creek	27.50	18.3	16.5	14.3
Tongue River Reservoir	Tongue River	73.90	21.4	15.0	19.1
Sherburne Lake	Swiftcurrent Cr.	66.10		39.9	24.6
<u>YELLOWSTONE RIVER BASIN, WYOMING</u>					
Buffalo Bill Reservoir	Shoshone River	456.60	233.7	236.2	271.0
Boysen Reservoir	Wind River	819.80	233.4	--	--
Pilot Butte Reservoir	Wind River	30.10	19.1	21.0	20.8
Bull Lake Reservoir	Wind River (Bull Creek)	155.00	33.9	71.5	49.4
<u>COLUMBIA RIVER BASIN</u>					
Georgetown Lake	Flint Creek	31.00	21.6	21.4	21.4
E.Fk. Rock Creek Res.	E.Fk. Rock Creek	16.04	--	--	--
Nevada Creek Res.	Nevada Creek	12.60	--	--	--
W. Fk. Bitterroot Res.	W. Fk. Bitterroot Riv.	31.70	--	--	--
Como Lake	Rock Creek	34.80	20.8	16.6	18.9
Hungry Horse Reservoir	So.Fk. Flathead Riv.	3,000.00	216.7	--	--
Flathead Lake	Flathead River	1,791.00	1,212.0	990.6	949.1
Little Bitterroot	Little Bitterroot*	36.10	36.1	36.1	14.9
Dry Fork Reservoir	Dry Fork Creek*	6.70	6.4	5.8	4.2
Mission Valley Reservoir	Flathead Irr. Project**	98.60	67.2	58.8	47.0
Lower Jocko Lake	Jocko Creek	7.6	2.6	--	--
* Sum of two reservoirs on Little Bitterroot					
* Sum of two reservoirs on Dry Fork Creek					
** Sum of eight (8) reservoirs on Project					

PRECIPITATION DATA FOR MAY 1, 1952
MONTANA

Station	Elev- ation	1951					1952					1952		Dept. from Normal	Accum. Precip.		Dept.
		Precipitation					Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.		Normal	1951-52	
		Oct.	Nov.	Dec.	Jan.	Feb.											
WEST OF DIVIDE -Fortine-3000																	
Butte (Airport)	5533	3.63	.92	2.49	1.39	0.79	0.39	0.39	0.48	0.34	0.01	0.06	0.27	-0.51	10.09	8.99	+1.10
Phillipsburg	5280	0.96	.40	1.18	.29	0.85	1.46	1.46	0.34	0.01	0.01	0.06	0.27	-0.72	5.48	4.19	+1.29
Hamilton	3529	.63	.66	2.12	.26	0.98	1.12	1.12	0.01	0.01	0.01	0.06	0.27	-1.24	5.78	6.28	-0.50
West Glacier	3154	1.14	.77	1.41	.31	0.94	0.39	0.39	0.06	0.06	0.06	0.06	0.27	-0.81	5.02	5.53	-0.51
Summit (Marías)	5213	4.92	2.25	4.25	2.51	1.29	1.13	1.13	0.65	0.65	0.65	0.65	0.65	-1.23	16.62	16.16	+0.46
Ovando 1 SW	4101	6.20	3.20	4.65	4.35	2.15	2.55	2.55	0.65	0.65	0.65	0.65	0.65	-1.63	23.75	19.82	+3.93
Trout Creek	2485	1.57	1.37	2.08	.71	0.93	1.13	1.13	0.03	0.03	0.03	0.03	0.03	-0.92	7.82	9.66	-1.84
Thompson Falls	2435	6.50	3.11	4.74	3.81	2.30	1.71	1.71	0.33	0.33	0.33	0.33	0.33	-1.35	22.50	21.45	+1.05
Average (8)		3.29	2.16	1.89	.82	1.17	0.44	0.44	0.18	0.18	0.18	0.18	0.18	-1.26	9.95	13.01	-3.06
		3.15	1.74	2.79	1.63	1.27	1.24	1.24	0.26	0.26	0.26	0.26	0.26	-1.08	11.89	11.73	+0.16
CENTRAL DIVISION																	
Babb	4300	2.91	.24	1.49	.25	0.89	0.48	0.48	0.16	0.16	0.16	0.16	0.16	-0.83	4.13	7.64	-0.49
Havre	2488	1.00	.25	1.02	.42	0.81	0.47	0.47	0.30	0.30	0.30	0.30	0.30	-0.85	6.22	4.62	+0.84
Great Falls (Airport)	3664	1.72	.41	1.06	.34	1.63	0.76	0.76	0.37	0.37	0.37	0.37	0.37	-0.76	4.53	5.38	+0.14
Helena (Airport)	3893	.79	.31	1.08	.15	0.56	1.27	1.27	0.37	0.37	0.37	0.37	0.37	-0.90	5.87	4.57	+1.30
Lewistown (Airport)	4132	1.68	.67	1.50	.39	0.78	0.48	0.48	0.37	0.37	0.37	0.37	0.37	-0.79	8.10	5.83	+2.72
Livingston	4485	3.74	.48	1.05	1.08	1.00	0.57	0.57	0.53	0.53	0.53	0.53	0.53	-0.50	6.38	5.67	+0.71
Wisdom	6058	1.74	.57	1.50	.19	1.06	0.99	0.99	0.60	0.60	0.60	0.60	0.60	-1.60	16.53	14.56	+1.97
West Yellowstone	6669	3.66	1.66	3.83	3.34	1.75	2.05	2.05	0.24	0.24	0.24	0.24	0.24	-0.62	11.99	11.47	+0.52
Mystic Lake	6558	3.58	.75	1.66	1.22	1.30	1.36	1.36	2.12	2.12	2.12	2.12	2.12	-0.87	7.97	7.12	+0.85
Average (9)		2.21	.59	1.53	.85	1.09	0.94	0.94	0.59	0.59	0.59	0.59	0.59	-0.87	7.97	7.12	+0.85
EASTERN DIVISION																	
Malta	2255	.92	.03	.46	.41	0.69	0.53	0.53	0.16	0.16	0.16	0.16	0.16	-0.92	3.78	3.78	-1.39
Fort Peck	2180	.53	.27	.55	.17	1.06	0.33	0.33	0.04	0.04	0.04	0.04	0.04	-0.85	1.90	3.73	-2.53
Medicine Lake	1962	.49	.07	.27	.22	0.48	0.15	0.15	0.02	0.02	0.02	0.02	0.02	-1.12	3.29	5.59	-0.92
Circle	2428	.73	.22	.55	.19	0.48	0.45	0.45	0.52	0.52	0.52	0.52	0.52	-1.02	3.21	5.74	-2.53
Billings #2	3139	.86	.16	.55	.42	0.92	0.58	0.58	0.10	0.10	0.10	0.10	0.10	-1.02	4.31	5.23	-0.92
Miles City	2392	.69	.46	1.14	.25	1.23	0.66	0.66	0.06	0.06	0.06	0.06	0.06	-1.06	3.81	4.71	-0.90
Glendive	2076	.63	.38	.60	.25	0.63	0.70	0.70	0.10	0.10	0.10	0.10	0.10	-1.43	4.78	5.29	-0.51
Broadus	3026	1.78	.64	.79	.27	.78	0.49	0.49	0.14	0.14	0.14	0.14	0.14	-1.03	3.60	4.67	-1.07
Average (8)		.83	.28	.62	.27	.78	0.49	0.49	0.27	0.27	0.27	0.27	0.27	-1.03	3.60	4.67	-1.07

PRECIPITATION DATA FOR MAY 1, 1952
NORTHERN WYOMING

Station	Elev- ation	1951					1952					1952	
		Precipitation					Apr.	Normal	Dept. from Normal	Accum. 1951-52	Precip. Dept.		
		Oct.	Nov.	Dec.	Jan.	Feb.						Mar.	
<u>BIG HORN RIVER BASIN</u>													
Cody	4984	1.14	0.39	0.30	0.30	0.35	0.51	0.59	-0.14	3.58	3.72	-0.14	
Lovell	3825	1.09	0.12	0.39	0.22	0.17	0.41	0.56	-0.04	2.96	2.84	+0.18	
Worland	4061	0.31	0.09	0.10	0.41	0.19	0.17	1.21	+0.21	2.48	3.35	-0.87	
Sunshine 4 SW	6930	1.82	0.16	0.18	0.07	0.94	0.51	1.62	+0.40	4.58	7.75		
Thermopolis	4336	0.93	0.28	0.29	0.13	0.13	0.20	1.23	-0.07	3.23	5.88	-1.30	
Riverton	4954	0.67	0.09	0.25	0.05	0.47	0.47	1.22	+0.17	3.07	4.03	-0.80	
Dubois	6917	0.24	0.12	0.53	0.35	0.38	0.23	1.22	+0.17	3.07	4.06	-0.99	
Average		0.89	0.18	0.29	0.24	0.52	0.33	1.07	-0.35	3.31	4.52	-1.21	
<u>TONGUE RIVER BASIN</u>													
Sheridan	4021	1.37	0.15	0.68	0.15	1.39	0.85	0.80	-1.12	5.39	6.97	-1.58	
<u>POWDER RIVER BASIN</u>													
Arvada	3680	0.58	0.18	0.45	0.05	0.50	0.61	0.02	-1.24	3.29	4.62	-1.33	
Metz Ranch	5280	0.95	0.11	0.19	0.12	0.30	0.73	1.13	+0.46	3.53	5.05	-1.52	
Gillette	4542	1.06	0.50	0.40	0.40	0.50	0.85	0.15	-1.60	3.86	6.21	-2.35	
Nine Mile Creek	5000	0.49	0.35	0.18	0.30	0.77	0.88	0.36	-1.33	3.10	4.98	-2.99	
Mid West	4850	0.41	0.16	0.78	0.03	0.66	0.70	0.42	-1.18	3.44	6.09	-1.95	
Average		0.70	0.26	0.40	0.15	0.46	0.72	0.42	-1.18	3.44	5.39	-1.95	

MONTANA SNOW SURVEYS APRIL 15, 1952

COLUMBIA BASIN DRAINAGE BASIN AND SNOW COURSE **	No.	Elev.	Date of Survey 1952	Snow Depth (In.) 1952	Water Content (Inches)						Y e a r s	
					Apr. 15 1952	1951	Past Records			Average data Apr. 15 %Avg.		
							1950	1949	1948			Avg.
<u>KOOTENAI</u>												
Baree Mountain	15-B-1	6000	Apr. 15	101	46.0	---	---	51.0	---	---	---	2
Blue Bird Basin	14-A-1	6800	Apr. 15	97	39.7	---	---	37.7	---	---	---	2
Red Mountain	15-A-1	6000	Apr. 15	45	18.3	---	---	---	---	---	---	1
Smith Creek	16-A-1	4800	Apr. 15	95	40.0	---	---	---	---	---	---	1
<u>FLATHEAD RIVER</u>												
Desert Mountain	13A2	5600	Apr. 14	43	16.8	---	---	17.0	---	---	---	2
Marias Pass	13A5	5250	Apr. 15	46	17.6	---	---	---	---	---	---	1
Spotted Bear Mt.	13B2	7000	Apr. 16	32	12.7	---	---	---	---	---	---	1
Strawberry Lake	13B10	6500	Apr. 16	106	48.9	---	---	---	---	---	---	1
Trinkus Lake	13B1	6500	Apr. 16	87	35.2	---	---	---	---	---	---	1
Trout Lake	13A12	3600	Apr. 16	31	13.2	---	---	---	---	---	---	1
Twin Creeks	13B11	3580	Apr. 16	13	5.8	---	---	---	---	---	---	1
Upper Holland Lake	13B5	7000	Apr. 16	82	35.7	---	---	---	---	---	---	1
Basin Creek	13B14	5000	Apr. 16	23	7.7	---	---	---	---	---	---	1
Holbrook	14B13	4530	Apr. 16	16	6.0	---	---	---	---	---	---	1
<u>UPPER CLARK FORK</u>												
Coyote Hill	13B11	4200	Apr. 14	23	12.0	---	---	---	---	---	---	1
Rainy Lake	13B6	4300	Apr. 14	26	14.2	---	---	---	---	---	---	1
Slide Rock Mt.	13C2	7100	Apr. 21	44	16.2	---	---	---	---	---	---	1
Stuart Mt. #1	13C1	7400	Apr. 10	89	36.8	---	---	22.2	---	---	---	2
Tennile, Lower	12C2	6250	Apr. 15	22	6.1	---	---	---	---	---	---	1
Tennile, Middle	12C3	6800	Apr. 16	37	11.1	---	---	---	---	---	---	1
Tennile, Upper	12C4	8000	Apr. 16	44	14.1	---	---	---	---	---	---	1
Lookout	15B2	5350	Apr. 15	85	37.8	---	---	---	---	---	---	2
49-Meadows	15B10	5000	Apr. 14	85	39.0	---	---	15.0	---	---	---	1

MONTANA SNOW SURVEYS MAY 1, 1952

MISSOURI BASIN DRAINAGE BASIN AND SNOW COURSE **	No.	Elev.	Date of Survey 1952	Snow Depth (In.) 1952	May 1 1952	Water Content (Inches)				Y e a r s
						Past Records			Average Data May 1 %Avg.	
						1951	1950	1949		
<u>JEFFERSON RIVER</u>										
(Rock-Beaverhead)										
Lakeview Ridge	11E3	7400	Apr. 30	26	10.6	4.9	--	2.4	--	3
Lakeview Canyon	11E4	6930	Apr. 30	39	17.9	8.2	--	2.2	--	3
*Kilgore	11E12	6200								
*Camp Creek	12E3	6800	May 2	12	5.6	--	--	--	--	1
*Blue Ledge Mine (Wise River)	11E11	6700								
Elk Horn	13D15	8450	May 3	11	3.8	--	10.7	5.5	8.8	10
<u>MADISON RIVER</u>										
Hebgen	11E5	6550	May 2	15	7.2	T	8.4	1.2	7.4	19
West Yellowstone	11E7	6700	May 1	16	6.8	5.1	10.0	4.4	4.5	19
21-Mile	11E6	7150	May 2	37	16.1	12.5	18.8	12.6	12.6	19
*Big Springs	11E9	6500								
*Island Park	11E10	3600								
*Valley View	11E8	6500								
Norris Basin	10E2	7500	May 1	No snow				2.5		3
<u>GALLATIN RIVER</u>										
Devil's Slide	10D4	8100	May 3	57	25.6	18.7	24.5	20.3	30.5	18
Hood Meadow	10D3	6600	May 4	7	2.5	5.5	8.5	1.7	9.9	18
New World	10D1	6700	May 3	12	3.8	7.2	10.6	--	--	3
21-Mile	11E6	7150	May 2	37	16.1	12.5	18.8	12.6	12.6	19
* Adjacent Basin										

* Adjacent Basin

MONTANA SNOW SURVEYS MAY 1, 1952

MISSOURI BASIN DRAINAGE BASIN AND SNOW COURSE **	No.	Elev.	Date of Survey 1952	Snow Depth (In.) 1952	Water Content (Inches)				Years	
					May 1 1952	Past Records				Average Data May 1 %Avg.
						1951	1950	1949		
<u>MISSOURI RIVER MAIN STEM</u>										
Chessman Reservoir	12C5	6200	May 1	0	3.0	7.8	4.6	1.6	--	17
Kings Hill	10C1	7950	May 4	25	9.8	12.8	14.6	11.7	84	12
Pipestone Pass	12D1	7200	May 2	2	0.3	6.3	--	2.2	13	13
Stemple Pass	12C1	6900	May 1	12	4.2	11.2	8.3	6.0	70	18
Tennile, Lower	12C2	6250	May 3	0	0.0	5.1	2.1	2.0	--	17
Tennile, Middle	12C3	6800	May 3	5	1.7	11.2	8.9	6.7	17	18
Tennile, Upper	12C4	8000	May 3	16	5.9	14.8	14.6	10.2	58	17
(Marías River)										
Marías Pass	12B5	5250	Apr 29	24	10.5	19.7	15.3	9.9	106	18
<u>UPPER YELLOWSTONE</u>										
					WYOMING					
Canyon	10E3	7750	Apr 30	34	13.3	--	10.8	11.6	115	6
Cooke City	10D7	7400	Apr 30	12	3.2	6.2	6.5	4.9	65	8
Lake Camp	10E4	7850	Apr 30	22	7.9	6.2	--	7.8	101	7
Lodgepole, Wyoming	9E1	8200	Apr 30	21	6.9	14.8	11.7	8.2	89	15
Lupine	10E1	7300	Apr 30	No Snow						
*Lewis Lake Divide	10E9	7000	May 1	86	14.0	50.4	40.9	43.7	101	34
*Astor Creek	10E8	7700								
*Tom Thumb Summit	10E7	7900								

* Adjacent Basin

WYOMING SNOW SURVEYS MAY 1, 1952

MISSOURI BASIN DRAINAGE BASIN AND SNOW COURSE **	No.	Elev.	Date of Survey 1952	Snow Depth (In.) 1952	Water Content (Inches)							Years
					May 1 1952	Past Records			Average data May 1			
						1951	1950	1949	1948	Avg.	%Avg.	
LOWER YELLOWSTONE (Wind River - above Div. Dam)												
Brooks Lake #3	10F2	9200	Apr. 29	63	34.2	34.2	25.5	29.5	25.3	115	17	
Burrroughs Creek	9F6	8800	Apr. 29	30	25.3	17.7	11.2	--	16.1	65	4	
Du Noir	9F2	8750	May 1	7	11.6	11.7	2.1	7.1	6.9	36	11	
Geyser Creek	9F3	8500	Apr. 30	7	10.3	7.8	0.0	--	5.2	44	4	
Little Warm	9F4	9500	Apr. 30	50	28.1	26.2	17.3	--	22.4	80	4	
Sheridan Creek	9F1	7500	Apr. 29	No Snow	6.0	5.0	0.0	3.0	2.1	--	12	
T-Cross Ranch	9F5	8000	Apr. 24	13	7.7	6.2	0.0	2.9	3.6	147	11	
*Togwotee Pass	9F1	9600	May 1	68	40.4	---	29.5	33.2	33.5	134	4	
Dinwoodie	9F10	10000	Apr. 28	42	18.6	17.2	10.6	--	15.2	89	4	
Dry Creek	9F9	9500	Apr. 28	20	11.5	10.6	3.9	--	8.0	74	4	
Hobbs Park	9G2	10000	Apr. 25	72	25.8	30.3	21.3	--	26.0	103	4	
Mosquito Park	9G3	9500	Apr. 25	38	8.1	12.7	5.4	--	7.0	185	7	
St. Lawrence	9F11	9000	Apr. 27	28	6.9	10.3	4.8	--	7.8	119	9	
Trout Creek	9G1	8400	Apr. 25	23	0.0	1.5	0.0	--	--	--	4	
*Kendall	9F12	7900										
*Loomis Park	10F5	8500										
*Black Rock	10F3	8600										
*Yellow Jacket	10F5	6775										
* Adjacent Basin												

* Adjacent Basin



WYOMING SNOW SURVEYS, MAY 1, 1952

MISSOURI BASIN DRAINAGE BASIN AND SNOW COURSE **		No.	Elev.	Date of Survey 1952	Snow Depth (In.) 1952	Water Content (Inches)					Y e a r s	
						May 1 1952	Past Records					
							1951	1950	1949	1948		
POPO AGIE RIVER												
Blue Ridge	8G2	9500	Apr. 26	52	20.5	12.6	18.4	10.8	12.9	12.6	162	13
Grannier Meadows	8G4	9000	Apr. 26	49	20.1	12.0	23.1	13.2	14.6	14.0	144	16
*Larsen Creek	9G4	9000										
Sawmill Glade	8G1	8500	Apr. 26	31	11.6	7.3	7.6	2.1	8.0	7.2	161	13
South Pass	8G3	9000	Apr. 26	48	20.7	15.8	25.3	14.3	14.6	14.8	140	13
Mulligen Park	9G5	8900										
*Dutch Joe	9C6	8700										
BIG HORN RIVER (Wyoming)												
Beavers Mill	9F8	8000	Apr. 28	21	5.7	6.8	8.0	4.8	--	6.3	91	4
Owl Creek	8F1	8700	Apr. 30	26	6.9	5.4	10.0	5.6	--	7.0	99	4
Wood River	9E7	8000	May 2	4	1.1	5.4	5.0	2.3	5.8	3.8	29	12
Tensleep R. S.	7E3	8200	Apr. 30	10	3.8	5.5	8.5	1.5	5.5	4.4	86	17
Ranger Creek	7E1	8800	May 1	14	5.2	6.2	8.4	6.7	--	6.5	80	16
SHOSHONE RIVER												
East Entrance	10E6	7000	May 1	No Snow		0.0	5.6	--	--	--	--	2
Sylvan Pass	10E5	7100	May 1	No Snow		0.0	15.7	11.5	14.1	8.3	--	15
TONGUE RIVER												
Burgess R. S.	7E4	7900	May 3	27	9.2	15.6	16.0	--	--	13.6	71	3
Big Goose	7E2	7700	May 3	0	0.0	0.8	1.7	0.0	3.9	2.6	--	16
Dome Lake	7E5	9000	May 3	18	5.0	6.6	8.9	--	--	5.8	86	4
Adjacent Basin												

WYOMING SNOW SURVEYS MAY 1, 1952

MISSOURI BASIN DRAINAGE BASIN AND SNOW COURSE **	No.	Elev.	Date of Survey 1952	Snow Depth (In.) 1952	Water Content (Inches)					Y e a r s		
					May 1 1952	Past Records					Average Data	
						1951	1950	1949	1948		May 1 Avg.	%Avg.
							</					

MONTANA SNOW SURVEYS MAY 1, 1952

COLUMBIA BASIN DRAINAGE BASIN AND SNOW COURSE **	No.	Elev.	Date of Survey 1952	Snow Depth (In.) 1952	Water Content (Inches)					Average Data May 1 Avg. %Avg.	Years	
					Past Records				Avg.			
					1951	1950	1949	1948				
<u>KOOTENAI</u>	15B1	6000	Apr. 30	72	37.6	40.4	68.1	51.1	47.2	40.0	94	16
	14A1	6800	Apr. 28	73	34.9	44.4	53.7	36.3	51.2	36.1	96	14
	14A4	5000	Apr. 30	7	2.3	8.6	17.1	--	--	5.8	10	9
	Canada	3500	Apr. 29	00	0.0	2.1	7.7	0.0	3.9	2.3	--	6
	Canada	4100	Apr. 29	00	0.0	11.1	--	--	--	--	--	2
	Canada	5600	Apr. 29	35	16.3	--	--	--	--	--	--	1
	Canada	3000	Apr. 30	24	12.3	13.6	18.9	11.7	18.5	14.8	83	6
	Canada	5000	Apr. 30	21	7.3	19.1	16.7	10.2	12.1	13.1	55	5
	15A1	6000	May 1	23	9.4	19.9	31.1	16.3	16.2	15.5	63	15
	Canada	4500	Apr. 30	No Snow		3.1	3.2	.2	.8	1.5	--	5
	16A1	4800	May 2	65	32.6	38.7	55.8	40.2	--	34.8	94	14
	Canada	5100	May 1	17	7.2	12.9	16.6	7.9	9.9	10.9	66	5
	Canada	5100	Apr. 29	39	15.5	19.7	24.5	18.4	20.0	16.6	93	5
	Canada	3500	Apr. 25	No Snow		0.0	8.3	0.0	4.2	2.1	--	6



MONTANA SNOW SURVEYS MAY 1, 1952

COLUMBIA BASIN DRAINAGE BASIN AND SNOW COURSE **	No.	Elev.	Date of Survey 1952	Snow Depth (In.) 1952	May 1 1952	Water Content (Inches)					Years	
						Past Records						
						1951	1950	1949	1948	Avg. May 1 %Avg.		
<u>FLATHEAD RIVER</u>												
Blue Bird	14A1	6800	Apr. 28	73	34.9	44.4	53.7	36.3	51.2	36.1	97	14
Basin Creek	13B14	5000	May 1	No Snow		2.1	--	--	--	--	--	2
Big Creek	13B3	6750	Apr. 30	82	42.1	48.0	60.0	--	--	44.6	95	4
Brush Creek	14A4	5000	Apr. 30	7	2.3	8.6	17.1	--	--	5.8	40	9
Cattle Queen	13A1	4700	May 1	No Snow								
Coyote Hill	13B11	4200	May 1	No Snow								
Desert Mountain	13A2	5600	Apr. 29	19	7.9	14.8	21.7	10.8	14.9	10.2	78	16
Goat Mountain												
Hell Roaring Div.	14A3	5700	Apr. 29	52	25.3	24.0	37.4	26.7	31.0	26.7	97	11
Holbrook	14B13	4530	May 1	No Snow		1.4						2
Kishenehn	14A2	4300										
Limestone Pass	13B8	7600	Apr. 30	68	33.0	40.3	29.0	--	--	31.1	97	3
Logan Creek	14A5	4300	Apr. 27	No Snow		1.0	7.1	--	3.4	1.1	--	14
Marias Pass	13A5	5250	Apr. 29	24	10.5	19.7	26.3	12.1	15.3	9.9	106	18
North Fork Jocko	13B7	6330	Apr. 29	71	35.1	43.4	59.6	--	--	35.6	99	5
Quintonkon	13A13	3800	May 1	8	4.1	4.6	--	--	--	--	--	2
Rainy Lake	13B6	4300	May 1	No Snow		0.0	10.2	T	0.0	--	--	6
Strawberry Lake	13B10	6500	May 2	76	39.7	27.9	58.8	35.4	--	40.4	98	4
Trinkus Lake	13B1	6500	May 1	80	40.6	32.9	53.1	36.5	--	40.8	99	4
Trout Lake	13A12	3600	Apr. 30	9.1	4.3	--	20.2	--	14.9	--	--	3
Twin Creeks	13B11	3580	May 1	No Snow		0.0	--	--	--	--	--	2
Upper Hollander Lake	13B5	7000	May 1	64	34.0	33.5	--	--	--	--	--	2
Snow Lab #16	13A9	5200	May 1	35	15.4	22.0	28.0	17.0	17.9	20.7	74	6



MONTANA SNOW SURVEYS MAY 1, 1952

COLUMBIA BASIN DRAINAGE BASIN AND SNOW COURSE **	No.	Elev.	Date of Survey 1952	Snow Depth (In.) 1952	Water Content (Inches)					Y e a r s	
					May 1 1952	Past Records			Average data May 1		
						1951	1950	1949	1948		Avg.
<u>UPPER CLARK FORK</u>											
Coyote Hill	13B11	4200	May 1	No Snow	--	--	--	--	--	1	
Chessman Res.	12C5	6200	May 1	No Snow	3.0	7.8	--	4.6	1.7	17	
North Fork Jocko	13B7	6330	Apr. 29	71	43.4	59.6	--	--	35.6	5	
Pipestone Pass	12D1	7200	May 2	2	6.3	3.2	1.0	--	2.2	13	
Rainy Lake	13B6	4200	May 1	No Snow	--	--	--	--	--	13	
Slide Rock Mt.	13C2	7100	May 5	32	--	--	12.2	--	10.5	12	
Stemple Pass	13C1	6900	May 1	12	11.2	14.2	6.3	8.3	6.0	18	
Stuart Mt. #1	13C1	7400	Apr. 30	61	--	--	22.2	31.1	26.2	14	
Tennile, Lower	12C2	6250	May 3	0	5.1	8.9	0.2	2.1	2.0	17	
Tennile, Middle	12C3	6800	May 3	5	11.2	16.3	3.5	8.9	6.7	18	
Tennile, Upper	12C4	8000	May 3	16	11.8	18.8	7.1	14.6	10.2	17	
*10 Meadows	15B10	5000									
*Above Burke		4100									
*Lockout	15B2	5250	May 1	54	27.5	45.1	21.4	34.8	22.4	16	
*Above Roland	15B7	4350									
*Below Roland	15B6	3770									
*Sunset	15B9	5600									
* Adjacent Basin											

* Adjacent Basin

MONTANA SNOW SURVEYS MAY 1, 1952

COLUMBIA BASIN DRAINAGE BASIN AND SNOW COURSE **	No.	Elev.	Date of Survey 1952	Snow Depth (In.) 1952	May 1 1952	Water Content (Inches)				Average Data May 1 %Avg.	Years	
						Past Records						
						1951	1950	1949	1948			
BITTERROOT	13D2	7100	May 2	47	21.8	23.6	28.3	22.9	21.3	19.6	111	17
	14D2	5580	May 1	8	4.0	4.9	13.1	6.0	7.8	4.4	91	16
	14D1	6575	May 1	28	12.2	13.3	18.6	12.9	15.1	9.6	127	16
	13C1	7400	Apr. 30	61	31.1	--	--	22.2	31.1	26.2	119	14
	13D16	6200										
	14D3	4700										
	14C4	6000	Apr. 28	48	25.3	--	--	30.9	--	21.1	120	9
	15C3	3700	Apr. 30	4	2.3	--	--	9.8	6.0	6.3	37	5
	14C2	5700	Apr. 28	22	12.3	7.9	24.3	24.7	21.9	13.1	94	16
PEND ORIFELLE	13B1	6000	Apr. 30	72	37.6	40.4	68.1	51.1	47.2	40.0	94	16
	15C3	7000	May 1	69	33.1	--	--	36.3	--	22.0	150	15
	13C1	6200	May 1	76	38.6	--	--	--	--	36.6	106	11
	16A4	5600	Apr. 29	55	27.9	26.8	47.0	34.1	34.6	28.1	99	14
	Baree Mt.											
	Freezeout Summit											
	Hoodoo Creek											
	Mosquito Ridge											

* Adjacent Basin

PEND ORIELLE

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Furnishes the basic data
necessary for forecasting
water supply for irrigation,
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